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FEDERAL COMMUNICATIONS COMMISSION
INTERNATIONAL BUREAU

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October 27, 1995

RECEIVED

OCT 27 1995

Mr. William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

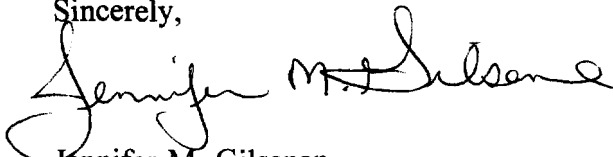
RE: CC Docket 92-297

Dear Mr. Caton:

Pursuant to Section 1.1204(b)(7) of the Commission's rules, 47 C.F.R. § 1.1204(b)(7), this will serve to indicate that on October 26, 1995 Scott Harris, Tom Tycz, Harry Ng, Fern Jarmulnek, Karl Kensinger, Giselle Gomez, Jennifer Gilsenan, and Joslyn Read of the International Bureau held a Status Conference, with the attached list of participants, to discuss the submissions of recent GSO/FSS satellite applications in the 20/30 GHz band to the International Telecommunications Union (ITU). The attached documents formed a basis of the discussions.

The matter discussed was timely submission of Appendix 4 information to the ITU.

Sincerely,


Jennifer M. Gilsenan

No. of Copies rec'd
List ABCDE

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October 26, 1995

2002-13887-6121
Fax #

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**AGENDA FOR STATUS CONFERENCE
ON GSO/FSS APPLICANTS FOR
THE 20/30 GHZ BAND**

October 26, 1995
FCC International Bureau
2:00-4:00 pm
Room 825

1. Opening Remarks
2. ITU Submission of Appendix 4 for 28 GHz GSO/FSS Satellites
 - a. 2° spacing
 - b. Proposal for Generic Appendix 4 Form
3. Schedule
4. Other Business

Schedule For ITU Submissions

November 17, 1995 End of WRC-95.

November 3, 1995

- Report to Commission whether industry has reached consensus on orbital locations.
- If consensus has been reached, each company can prepare Appendix 4s for agreed upon slots including inter-satellite links.
- If no consensus has been reached, Commission will designate for each company the same number of slots as the number of satellites applied for and the company will prepare Appendix 4s for those slots without inter-satellite links.

November 8, 1995

- Applicants must submit Appendix 4s to the Commission and NTIA for review.

NTIA Address and contact:

Department of Commerce
NTIA
Room 4600
14th and Constitution Avenue, N.W.
Washington, D.C. 20230
Attn: Mr. William Gamble

November 13/14, 1995

- Commission will submit to the ITU those Appendix 4s that are complete, accurate and received by the 8th.

***** Appendix 4 submission for each orbital location is not to exceed 35 pages. *****

Frequency bands for inter-satellite links

Taking both government and non-government requirements into account, the entry for the inter-satellite link in the Appendix 4 submission should be

54.25-58.2 GHz
59-64 GHz
65-71 GHz¹
116-126 GHz

Note 1: The use of any assignments in this band will be operated under ITU-RR 342 or subject to the result of future WRCs.

**ITU-BR information pertaining to the government use of the
17.8-21.2 GHz and 30-31 GHz bands**

USCSID-A1	0 EL
USCSID-A2	44 EL
USCSID-A3	75 EL
USCSID-A4	82 EL
USCSID-A5	92 EL
USCSID-A6	110 EL
USCSID-E1	10 WL
USCSID-E2	13 WL
USCSID-E3	24 WL
USCSID-E4	30 WL
USCSID-W1	141 WL
USCSID-W2	144 WL

USCSID-P non-GSO (63°, 39400-1000 km, 8 satellites)

* * * * *

US334 In the band 17.8 - 20.2 GHz, Government space stations and associated earth stations in the fixed-satellite (space-to-Earth) service may be authorized on a primary basis. For a Government geostationary satellite network to operate on a primary basis, the space station shall be located outside the arc measured from East, 70° W to 120° W. Coordination between Government fixed-satellite systems and non-government systems operating in accordance with the United States Table of Frequency Allocation is required. (MO&O adopted on July 28, 1995 and released on July 31, 1995)

ITU information pertaining to Canadian GSO satellites using the 20/30 GHz band

CANSAT KA-1	107.3 WL
CANSAT KA-2	111.1 WL
CANSAT KA-3	118.7 WL

DATE (Day/Month/Year) / / 	FORM OF NOTICE SATELLITE NETWORK (APPENDIX 4)	PAGE 1 OF 27 	AP4
Administration Serial Number 			
NOTIFYING ADMINISTRATION RR1042 		 RR1047A 	
USA / Advance Publication <input checked="" type="checkbox"/>		Request for Assistance of the IFRB <input type="checkbox"/>	
		NOTIFICATION INTENDED FOR ADD <input checked="" type="checkbox"/> MOD <input type="checkbox"/> SUP <input type="checkbox"/>	
SAMPLE		IFRB IDENTIFICATION NO. OF NETWORK TO BE MODIFIED/SUPPRESSED 	

B. CHARACTERISTICS OF THE NETWORK

1. NAME OF THE SPACE STATION USASAT 																																								
2. DATE OF BRINGING INTO USE <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="font-size: 0.8em;">DAY</td><td style="font-size: 0.8em;">MONTH</td><td style="font-size: 0.8em;">YEAR</td></tr> <tr><td style="text-align: center;">01</td><td style="text-align: center;">01</td><td style="text-align: center;">98</td></tr> </table>	DAY	MONTH	YEAR	01	01	98	REFERENCE TO PREVIOUS SPECIAL SECTION NUMBER (if network modified) / 																																	
DAY	MONTH	YEAR																																						
01	01	98																																						
3a. ADMINISTRATIONS IN GROUP USA 																																								
3b. OPERATING AGENCY OR COMPANY 022 	3c. ADMINISTRATION RESPONSIBLE FOR THE STATION USA 																																							
4. ORBITAL INFORMATION																																								
a. FOR GEOSTATIONARY SATELLITES ONLY																																								
1. NOMINAL ORBITAL LONGITUDE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">Degrees</td><td style="text-align: center;">E/W</td></tr> <tr><td style="text-align: center;">36.0</td><td style="text-align: center;">E</td></tr> </table>	Degrees	E/W	36.0	E	2. LONGITUDINAL TOLERANCE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">Degrees</td></tr> <tr><td style="text-align: center;">To West</td><td style="text-align: center;">To East</td></tr> <tr><td style="text-align: center;">0.1</td><td style="text-align: center;">0.1</td></tr> </table>	Degrees		To West	To East	0.1	0.1	3. INCLINATION EXCURSION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">Degrees</td></tr> <tr><td style="text-align: center;">0.1</td></tr> </table>	Degrees	0.1	4. VISIBILITY ARC <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="4" style="text-align: center;">Degrees</td></tr> <tr><td style="text-align: center;">From W</td><td style="text-align: center;">E/W</td><td style="text-align: center;">To E</td><td style="text-align: center;">E/W</td></tr> <tr><td style="text-align: center;">18</td><td style="text-align: center;">W</td><td style="text-align: center;">44</td><td style="text-align: center;">E</td></tr> </table>	Degrees				From W	E/W	To E	E/W	18	W	44	E	5. SERVICE ARC <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="4" style="text-align: center;">Degrees</td></tr> <tr><td style="text-align: center;">From W</td><td style="text-align: center;">E/W</td><td style="text-align: center;">To E</td><td style="text-align: center;">E/W</td></tr> <tr><td style="text-align: center;">18</td><td style="text-align: center;">W</td><td style="text-align: center;">44</td><td style="text-align: center;">E</td></tr> </table>	Degrees				From W	E/W	To E	E/W	18	W	44	E
Degrees	E/W																																							
36.0	E																																							
Degrees																																								
To West	To East																																							
0.1	0.1																																							
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From W	E/W	To E	E/W																																					
18	W	44	E																																					
Degrees																																								
From W	E/W	To E	E/W																																					
18	W	44	E																																					
6. REASON FOR SERVICE ARC < VISIBILITY ARC ATTACHED <input type="checkbox"/>																																								
b. FOR NON-GEOSTATIONARY SATELLITES ONLY																																								
1. INCLINATION ANGLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">Degrees</td></tr> <tr><td style="text-align: center;">.</td></tr> </table>	Degrees	.	2. PERIOD <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="font-size: 0.8em;">Days</td><td style="font-size: 0.8em;">D</td><td style="font-size: 0.8em;">Hours</td></tr> <tr><td style="font-size: 0.8em;">Hours</td><td style="font-size: 0.8em;">H</td><td style="font-size: 0.8em;">Min</td></tr> <tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr> </table>	Days	D	Hours	Hours	H	Min				3. APOGEE (km) 	4. PERIGEE (km) 	5. CELESTIAL BODY 	6. NUMBER OF SATS. 																								
Degrees																																								
.																																								
Days	D	Hours																																						
Hours	H	Min																																						

GENERAL NOTES:

- i. This form of notice consists of four parts — 1, 2, 3 et 4. In each part, each information item/data field includes a number in its label. This number is the same as that used for the same item in Appendix 4 (ORB-88) with the same part. For example, on the page labelled "Form AP4-2" (at the bottom), the field "4a1. Maximum power density" is the first item in section (a) of the paragraph numbered 4 in Part C. The items from parts F and G of Appendix 4 have been included in the parts C and D referred to above. The items from these parts have the letters F and G (correspondingly) preceding the number that is included in their labels.
- ii. Data items that are related are grouped together in a box. For example, the page labelled "Form AP4-2" (at the bottom) contains a box titled "Emissions and power characteristics". It is possible to specify 6 different emissions with the associated power and power density information in this box. If there are more emissions, use another page of the same type to provide additional data, after checking (X) the field labelled "More emissions on next page" on the preceding page. In all cases where there is more information than can fit in a box, follow this procedure.
- iii. This form can be used to add, modify or suppress an existing station, by checking the corresponding box at the top right-hand corner of this page in the area titled "Notification intended for". In the case of a modification of an existing station, where certain data fields are to be added, modified or suppressed, provide ALL the data in the particular box as they would look after the change. In addition, indicate that the corresponding beam, associated station or frequency range value is being modified by entering M in the field that has been provided for this purpose at these levels.
- iv. Certain fields in this notice form have a superscript "1" as part of their labels. This has the following meaning:
 1. This information is to be provided only if available.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **2** OF **27**

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam **A**

b. RECEIVING BEAM DESIGNATION **K1R**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dB
+	35.0

g. POLARIZATION

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.: **G2**

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G3**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS
OF STATION **EC**

2b. NATURE
OF SERVICE **CP**

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

6. RECEIVING SYSTEM NOISE TEMPERATURE

800 Kelvins

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: **G2**

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	27500.0	M	<input type="text"/>
TO	A	30000.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH Fc/G2a. DESIGNATION OF EMISSION	4a2/4c. TOTAL PEAK POWER	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER	Fd/G2b. SPACE/EARTH STATION E.I.R.P.	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
24M0F3F	+/- dBW 20.0	+/- dBW/Hz 50.3	+/- dBW	+/- dBW	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF TRANSMITTING SPACE
STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station

a. SPACE STATION NAME

G2c. TELECOMMAND INFORMATION
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

DESIGNATION OF TYPICAL EARTH STATION

Typical 5.0 m

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 29

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE ☒

REMARKS *** See Figure No. G2**

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING
ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED
TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION", USING AS MANY PAGES AS NECESSARY.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **3** OF **27**

5. CHARACTERISTICS OF THE BEAM

b. RECEIVING BEAM DESIGNATION **KIR**

ADD/MOD/SUP
of the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.: **G2**

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G3**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS
OF STATION **EC**

2b. NATURE
OF SERVICE **CP**

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

6. RECEIVING SYSTEM NOISE TEMPERATURE
800 Kelvins

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA *

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: **G2**

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/MG HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	27500.0	M	<input type="text"/>
TO	A	30000.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH F/G2a. DESIGNATION OF EMISSION ¹	4a2/4c. TOTAL PEAK POWER ¹	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER ¹	F/G2b. SPACE/EARTH STATION E.I.R.P. ¹	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO. ¹
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
24M0G7W	+ 28.0	- 43.3	<input type="text"/>	<input type="text"/>	<input type="text"/>
36M0G7W	+ 28.0	- 45.1	<input type="text"/>	<input type="text"/>	<input type="text"/>
6M00G1W	+ 13.3	- 52.0	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF TRANSMITTING SPACE
STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station

a. SPACE STATION NAME

G2c. TELECOMMAND INFORMATION¹
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

DESIGNATION OF TYPICAL EARTH STATION

Typical 6.1 m

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 29

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE ☐ MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE ☒

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USING AS MANY PAGES AS NECESSARY.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **4** OF **27**

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP

b. RECEIVING BEAM DESIGNATION

KIRof the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED. SEE FIGURE NO.:

G2e/f2. ANTENNA RADIATION PATTERN DIAGRAM ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT LONGITUDE ATTACHED. SEE FIGURE NO.:

G3

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS OF STATION

EC

2b. NATURE OF SERVICE

CP2a. CLASS OF STATION 2b. NATURE OF SERVICE 2a. CLASS OF STATION 2b. NATURE OF SERVICE 2a. CLASS OF STATION 2b. NATURE OF SERVICE

6. RECEIVING SYSTEM NOISE TEMPERATURE

800 KelvinsPERIOD OF VALIDITY **20** Years

1. SERVICE AREA

*

OR SERVICE AREA ATTACHED SEE FIGURE NO.:

G2

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/MG HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	27500.0	M	<input type="text"/>
TO	A	30000.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH OR Fd/G2a. DESIGNATION OF EMISSION ¹	4a2/4c. TOTAL PEAK POWER ¹	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER ¹	Fd/G2b. SPACE/EARTH STATION E.I.R.P. ¹	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
6M00G1W	+/- dBW + 20.9	+/- dBW/Hz - 44.4	+/- dBW <input type="text"/>	+/- dBW <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION CHARACTERISTICS OF TRANSMITTING SPACE STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station

a. SPACE STATION NAME

G2c. TELECOMMAND INFORMATION¹ ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

DESIGNATION OF TYPICAL EARTH STATION

Typical 2.4 m

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 29

4b2. ANTENNA RADIATION DIAGRAM ATTACHED SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE ☐MORE ASSOC. TRANSMITTING STATIONS ON NEXT PAGE ☐

REMARKS * See Figure No. G2

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C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **5** OF **27**

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam **A**

b. RECEIVING BEAM DESIGNATION **IS1**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	53.4

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G6**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS OF STATION ES	2b. NATURE OF SERVICE CP	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>
2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>

6. RECEIVING SYSTEM NOISE TEMPERATURE
645 Kelvins

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/MG HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	32000.0	M	<input type="text"/>
TO	A	33000.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH OR Fc/G2a. DESIGNATION OF EMISSION ¹	4a2/4c. TOTAL PEAK POWER ¹	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER ¹	Fd/G2b. SPACE/EARTH STATION E.I.R.P. ¹	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO. ¹
500MG1W	+/- dBW + 15.9	+/- dBW/Hz - 68.6	+/- dBW <input type="text"/>	+/- dBW <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION CHARACTERISTICS OF TRANSMITTING SPACE STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station **A**

a. SPACE STATION NAME
USASAT 29D

G2c. TELECOMMAND INFORMATION¹
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

DESIGNATION OF TYPICAL EARTH STATION

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE ☐ MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE ☐

REMARKS

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING
ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED
TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USING AS MANY PAGES AS NECESSARY.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **6** OF **27**

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam **A**

b. RECEIVING BEAM DESIGNATION **IS2**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	53.4

g. POLARIZATION

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G7**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS
OF STATION **ES**

2b. NATURE
OF SERVICE **CP**

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

6. RECEIVING SYSTEM NOISE TEMPERATURE
645 Kelvins

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/MG HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	22550.0	M	<input type="text"/>
TO	A	23550.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH FOR G2a. DESIGNATION OF EMISSION	4a2/4c. TOTAL PEAK POWER	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER	6d/G2b. SPACE/EARTH STATION E.I.R.P.	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
500MG1W	+ 15.9	- 68.6			<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF TRANSMITTING SPACE
STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station **A**

a. SPACE STATION NAME

USASAT 29H

G2c. TELECOMMAND INFORMATION
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

DESIGNATION OF TYPICAL EARTH STATION

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE

MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE

REMARKS

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USING AS MANY PAGES AS NECESSARY.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE **7** OF **27**

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam **A**

b. RECEIVING BEAM DESIGNATION **IS3**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	55.7

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G8**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS OF STATION ES	2b. NATURE OF SERVICE CP	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>
2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>

6. RECEIVING SYSTEM NOISE TEMPERATURE
645 Kelvins

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	59000.0	M	<input type="text"/>
TO	A	64000.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH OR F/G2a. DESIGNATION OF EMISSION ¹	4a2/4c. TOTAL PEAK POWER ¹	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER ¹	Fd/G2b. SPACE/EARTH STATION E.I.R.P. ¹	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO. ¹
500MG1W	+/- dBW + 18.7	+/- dBW/Hz - 65.8	+/- dBW <input type="text"/>	+/- dBW <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION CHARACTERISTICS OF TRANSMITTING SPACE STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station **A**

a. SPACE STATION NAME
USASAT 29D

G2c. TELECOMMAND INFORMATION ¹
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

DESIGNATION OF TYPICAL EARTH STATION

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE ☐ MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE ☐

REMARKS

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING
ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED
TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USING AS MANY PAGES AS NECESSARY.

C. SATELLITE NETWORK CHARACTERISTICS IN THE EARTH-TO-SPACE DIRECTION

SATELLITE RECEIVING ANTENNA BEAM DETAILS

PAGE 8 OF 27

5. CHARACTERISTICS OF THE BEAM

b. RECEIVING BEAM DESIGNATION **IS4**

ADD/MOD/SUP
of the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	55.7

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: **G9**

INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM

2a. CLASS
OF STATION **ES**

2b. NATURE
OF SERVICE **CP**

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

6. RECEIVING SYSTEM NOISE TEMPERATURE
645 Kelvins

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

2a. CLASS
OF STATION

2b. NATURE
OF SERVICE

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	54250.0	M	<input type="text"/>
TO	A	58200.0	M	<input type="text"/>

INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)

EMISSIONS AND POWER CHARACTERS

7/4a3. NECESSARY BANDWIDTH Fc/G2a. DESIGNATION OF EMISSION ¹	4a2/4c. TOTAL PEAK POWER ¹	4a1. MAXIMUM POWER DENSITY	4d. MINIMUM CARRIER POWER ¹	Fd/G2b. SPACE/EARTH STATION E.I.R.P. ¹	8. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
500MG1W	+/- dBW + 18.7	+/- dBW/Hz - 65.8	+/- dBW <input type="text"/>	+/- dBW <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF TRANSMITTING SPACE
STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP
of the station **A**

1. SPACE STATION NAME

USASAT 29H

G2c. TELECOMMAND INFORMATION¹
ATTACHED. SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

DESIGNATION OF TYPICAL EARTH STATION

4b1. RADIATION PATTERN (give reference pattern or provide diagram)

4b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE ☐ MORE ASSOC. TRANSMITTING
STATIONS ON NEXT PAGE ☐

REMARKS

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING
ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED
TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USING AS MANY PAGES AS NECESSARY.

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 9 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP

b. TRANSMITTING BEAM DESIGNATION **KIR**of the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION ¹

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM

ATTACHED. SEE FIGURE NO.:

G2

e/f2. ANTENNA RADIATION PATTERN DIAGRAM

ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT

LONGITUDE ATTACHED. SEE FIGURE NO.:

G3

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION**EC**2b. NATURE
OF SERVICE**CP**2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE PERIOD OF VALIDITY **20** Years1. SERVICE AREA * OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: **G2**

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	17700.0	M	<input type="text"/>
TO	A	20200.0	M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
4a3. NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION ¹	4a2/4b. TOTAL PEAK POWER ¹	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER ¹	Fd. SPACE/EARTH STATION E.I.R.P. ¹	
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
24M0F3F	+ 23.0	- 47.3	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station

a. SPACE STATION NAME

G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED. ¹
SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

TYPE OF TYPICAL EARTH STATION

Typical 5.0 m

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 298b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.: 8a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins**125**MORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE ☒

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS

TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING

EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE

STATION". USE AS MANY PAGES AS NECESSARY.

Form AP4-3

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION
SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE **10** OF **27**

5. CHARACTERISTICS OF THE BEAM

b. TRANSMITTING BEAM DESIGNATION **K1R**

ADD/MOD/SUP
of the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
 OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
 ATTACHED. SEE FIGURE NO.: **G2**

e/f2. ANTENNA RADIATION PATTERN DIAGRAM
 ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
 LONGITUDE ATTACHED. SEE FIGURE NO.: **G3**

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS OF STATION EC	2b. NATURE OF SERVICE CP	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>
2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>	2a. CLASS OF STATION <input type="text"/>	2b. NATURE OF SERVICE <input type="text"/>

PERIOD OF VALIDITY **20** Years

1. SERVICE AREA

OR SERVICE AREA
 ATTACHED
 SEE FIGURE NO.: **G2**

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	17700.0	M	<input type="text"/>
TO	A	20200.0	M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
4a3. NECESSARY BANDWIDTH OR F/G3a. DESIGNATION OF EMISSION1	4a2/4b. TOTAL PEAK POWER1	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER1	Fd. SPACE/EARTH STATION E.I.R.P.1	
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
24M0G7W	+ 23.0	- 48.3			<input type="text"/>
36M0G7W	+ 23.0	- 50.1			<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**F. SPACE STATION
 CHARACTERISTICS OF RECEIVING SPACE
 STATION FOR SPACE-TO-SPACE RELAYS**

ADD/MOD/SUP
of the station

a. SPACE STATION NAME

G3c. BEACON AND TELEMETRY
 INFORMATION ATTACHED.1
 SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

TYPE OF TYPICAL EARTH STATION

Typical 3.0 m

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 29

8a. RECEIVING
 SYSTEM NOISE
 TEMPERATURE
 Kelvins

125

8b2. ANTENNA RADIATION DIAGRAM ATTACHED
 SEE FIGURE NO.:

MORE EMISSIONS ON NEXT PAGE

MORE ASSOC. RECEIVING
 STATIONS ON NEXT PAGE ☒

REMARKS *** See Figure No. G2**

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 11 OF 27

5. CHARACTERISTICS OF THE BEAM

b. TRANSMITTING BEAM DESIGNATION **K1R**ADD/MOD/SUP
of the beam **A**NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:**G2**e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.:**G3**

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION **EC**2b. NATURE
OF SERVICE **CP**2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE PERIOD OF VALIDITY **20** Years1. SERVICE AREA ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: **G2**

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	17700.0	M	<input type="text"/>
TO	A	20200.0	M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS

6/4a3. NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION ¹	4a2/4b. TOTAL PEAK POWER ¹	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER ¹	Fd. SPACE/EARTH STATION E.I.R.P. ¹	7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO. ¹
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
6M00G1W	+ 17.0	- 48.3			<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station a. SPACE STATION NAME
G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED¹
SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station **A**

TYPE OF TYPICAL EARTH STATION

Typical 1.2 m

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 298b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.: 8a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvin
125MORE EMISSIONS ON NEXT PAGE ☐MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE ☒

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 12 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam ☒ Ab. TRANSMITTING BEAM DESIGNATION ☒ KIRNOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	35.0

g. POLARIZATION c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.:☒ G2e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.:☒ G3

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION ☒ EC2b. NATURE
OF SERVICE ☒ CP2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE PERIOD OF VALIDITY ☒ 20 YearsI. SERVICE AREA ☒ *OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:☒ G2

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	<input checked="" type="checkbox"/> A	<input type="text" value="17700.0"/>	<input checked="" type="checkbox"/> M	<input type="text"/>
TO	<input checked="" type="checkbox"/> A	<input type="text" value="20200.0"/>	<input checked="" type="checkbox"/> M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
6a/43. NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION	4a2/4b. TOTAL PEAK POWER	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER	Fd. SPACE/EARTH STATION E.I.R.P.1	
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
<input checked="" type="checkbox"/> 6M00G1W	<input checked="" type="checkbox"/> + 16.0	<input checked="" type="checkbox"/> - 49.3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station ☐

a. SPACE STATION NAME

G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED.1
SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station ☒ A

TYPE OF TYPICAL EARTH STATION

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

8a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins8b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:MORE EMISSIONS ON NEXT PAGE ☐MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE ☐

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

Form AP4-3

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 13 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam A

b. TRANSMITTING BEAM DESIGNATION PCB

NOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN
+/- dBi
+ 21.6

g. POLARIZATION 1

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.: G5e1/2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.:h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: G6

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS OF STATION ER 2b. NATURE OF SERVICE CP

2a. CLASS OF STATION 2b. NATURE OF SERVICE

2a. CLASS OF STATION 2b. NATURE OF SERVICE

2a. CLASS OF STATION 2b. NATURE OF SERVICE

PERIOD OF VALIDITY 20 Years

1. SERVICE AREA *

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: G5

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	27500.0	M	
TO	A	27501.0	M	

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
4a3. NECESSARY BANDWIDTH OR FuG3a. DESIGNATION OF EMISSION1	4a2/4b. TOTAL PEAK POWER1 +/- dBW	4a1/G3b. MAXIMUM POWER DENSITY +/- dBW/Hz	4C. MINIMUM CARRIER POWER1 +/- dBW	Fd. SPACE/EARTH STATION E.I.R.P.1 +/- dBW	
1M00G2D	- 1.6	- 59.1			

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station

j. SPACE STATION NAME

G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED1
SEE ATTACHED NO.

EARTH STATION

ADD/MOD/SUP
of the station A

TYPE OF TYPICAL EARTH STATION

Typical 10M

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

ITU-RS RR App 29

8b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:8a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins
120

MORE EMISSIONS ON NEXT PAGE

MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE

REMARKS * See Figure No. G5

NOTES ON FILLING IN THIS PAGE.

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

Form AP4-1

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 14 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam ☒ Ab. TRANSMITTING BEAM DESIGNATION ☒ PCBNOTE: For a steerable beam, the third character of the beam designation shall be "R".
OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dB
+	21.6

g. POLARIZATION c2/d2. ANTENNA GAIN CONTOURS DIAGRAM
ATTACHED. SEE FIGURE NO.: ☒ G5e/f2. ANTENNA RADIATION PATTERN DIAGRAM
ATTACHED. SEE FIGURE NO.: h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
LONGITUDE ATTACHED. SEE FIGURE NO.: ☒ G6

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS OF STATION ☒ ER 2b. NATURE OF SERVICE ☒ CP2a. CLASS OF STATION 2b. NATURE OF SERVICE PERIOD OF VALIDITY ☒ 20 Years1. SERVICE AREA ☒ * OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: ☒ G5

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM <input checked="" type="checkbox"/> A	<input type="text"/> 29999.0	<input checked="" type="checkbox"/> M	<input type="text"/>
TO <input checked="" type="checkbox"/> A	<input type="text"/> 30000.0	<input checked="" type="checkbox"/> M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
4a4.3 NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION1	4a2/4b TOTAL PEAK POWER1	4a1/G3b MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER1	Fd. SPACE/EARTH STATION E.I.R.P.1	
<input type="text"/> 1M00G2D	+/- dBW <input type="text"/> - <input type="text"/> 1.6	+/- dBW/Hz <input type="text"/> - <input type="text"/> 59.1	+/- dBW <input type="text"/>	+/- JBW <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station ☐

a. SPACE STATION NAME

G3c BEACON AND TELEMETRY
INFORMATION ATTACHED.1
SEE ATTACHED NO.

EARTH STATION

ADD/MOD/SUP
of the station ☒ A

TYPE OF TYPICAL EARTH STATION

 Typical 10M

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

 ITU-RS RR App 298a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins
 1208b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.: MORE EMISSIONS ON NEXT PAGE ☐MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE ☐

REMARKS * See Figure No. G5

NOTES ON FILLING IN THIS PAGE.

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

Form AP4-1

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 15 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP

b. TRANSMITTING BEAM DESIGNATION ISI

of the beam A

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/- dBi
+ 53.4

g. POLARIZATION

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM

ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM

ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT

LONGITUDE ATTACHED. SEE FIGURE NO.: G6

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION

ES

2b. NATURE
OF SERVICE

CP

2a. CLASS
OF STATION2b. NATURE
OF SERVICE2a. CLASS
OF STATION2b. NATURE
OF SERVICE2a. CLASS
OF STATION2b. NATURE
OF SERVICE

PERIOD OF VALIDITY 20 Years

1. SERVICE AREA

OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	32000.0	M	
TO	A	33000.0	M	

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS

6/4a3 NECESSARY BANDWIDTH OR Fc/G3a DESIGNATION OF EMISSION ¹	4a2/4b. TOTAL PEAK POWER ¹	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER ¹	Fd. SPACE/EARTH STATION E.I.R.P. ¹	7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO. ¹
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
500MG1W	+ 15.9	- 68.6			

F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station A

1. SPACE STATION NAME

USASAT29H

G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED.¹
SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

TYPE OF TYPICAL EARTH STATION

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

8b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.:8a. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins

MORE EMISSIONS ON NEXT PAGE

MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE

REMARKS

NOTES ON FILLING IN THIS PAGE.

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 16 OF 27

5. CHARACTERISTICS OF THE BEAM

b. TRANSMITTING BEAM DESIGNATION **IS2**ADD/MOD/SUP
of the beam **A**

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dB
+	53.4

g. POLARIZATION

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM

ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM

ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT

LONGITUDE ATTACHED. SEE FIGURE NO.: **G7**

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION**ES**2b. NATURE
OF SERVICE**CP**2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE 2a. CLASS
OF STATION 2b. NATURE
OF SERVICE PERIOD OF VALIDITY **20** Years1. SERVICE AREA OR SERVICE AREA
ATTACHED
SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	22550.0	M	<input type="text"/>
TO	A	23550.0	M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
6/4a3. NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION1	4a2/4b. TOTAL PEAK POWER1	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER1	Fd. SPACE/EARTH STATION E.I.R.P.1	
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
500MG1W	+ 15.9	- 68.6	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYS

a. SPACE STATION NAME

USASAT29DADD/MOD/SUP
of the station **A**G3c. BEACON AND TELEMETRY
INFORMATION ATTACHED.1
SEE ATTACHED NO.:

EARTH STATION

ADD/MOD/SUP
of the station

TYPE OF TYPICAL EARTH STATION

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

Ra. RECEIVING
SYSTEM NOISE
TEMPERATURE
Kelvins8b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.: MORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE REMARKS

NOTES ON FILLING IN THIS PAGE.

FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".

FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION". USE AS MANY PAGES AS NECESSARY.

Form AP4-1

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 17 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP
of the beam ☒ Ab. TRANSMITTING BEAM DESIGNATION ☒ IS3

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed) ☐

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	55.7

g. POLARIZATION ☐

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM

ATTACHED. SEE FIGURE NO.: ☐

e/f2. ANTENNA RADIATION PATTERN DIAGRAM

ATTACHED. SEE FIGURE NO.: ☐

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT

LONGITUDE ATTACHED. SEE FIGURE NO.: ☒ G8

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS
OF STATION ☒ ES2b. NATURE
OF SERVICE ☒ CP2a. CLASS
OF STATION ☐2b. NATURE
OF SERVICE ☐2a. CLASS
OF STATION ☐2b. NATURE
OF SERVICE ☐2a. CLASS
OF STATION ☐2b. NATURE
OF SERVICE ☐PERIOD OF VALIDITY ☒ 20 YearsI. SERVICE AREA ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐OR SERVICE AREA
ATTACHED
SEE FIGURE NO.: ☐

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

Add/Mod/Sup of the freq. range	FREQUENCY	k/MG HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM <input checked="" type="checkbox"/> A	<input type="text" value="59000.0"/>	<input checked="" type="checkbox"/> M	<input type="text"/>
TO <input checked="" type="checkbox"/> A	<input type="text" value="64000.0"/>	<input checked="" type="checkbox"/> M	<input type="text"/>

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS					7. MODULATION CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
4a2/3. NECESSARY BANDWIDTH OR Fc/G3a. DESIGNATION OF EMISSION1	4a2/4b. TOTAL PEAK POWER1	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER1	Fd. SPACE/EARTH STATION E.I.R.P.1	
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
<input type="text" value="500MG1W"/>	<input checked="" type="checkbox"/> + <input type="text" value="18.7"/>	<input checked="" type="checkbox"/> - <input type="text" value="65.8"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
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F. SPACE STATION
CHARACTERISTICS OF RECEIVING SPACE
STATION FOR SPACE-TO-SPACE RELAYSADD/MOD/SUP
of the station ☒ A

J. SPACE STATION NAME

G3c BEACON AND TELEMETRY
INFORMATION ATTACHED.1
SEE ATTACHED NO.: ☐

EARTH STATION

ADD/MOD/SUP
of the station ☐

TYPE OF TYPICAL EARTH STATION

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

8b2. ANTENNA RADIATION DIAGRAM ATTACHED
SEE FIGURE NO.: ☐Ha. RECEIVING
SYSTEM NOISE
TEMPERATURE

Kelvins

MORE EMISSIONS ON NEXT PAGE ☐MORE ASSOC. RECEIVING
STATIONS ON NEXT PAGE ☐REMARKS

NOTES ON FILLING IN THIS PAGE.

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Form AP-4-3

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE 18 OF 27

5. CHARACTERISTICS OF THE BEAM

ADD/MOD/SUP

of the beam A

b. TRANSMITTING BEAM DESIGNATION IS4

NOTE: For a steerable beam, the third character of the beam designation shall be "R".

OLD BEAM DESIGNATION (if changed)

ANTENNA CHARACTERISTICS

c1/d1/f1. MAXIMUM ISOTROPIC GAIN

+/-	dBi
+	55.7

g. POLARIZATION 1

c2/d2. ANTENNA GAIN CONTOURS DIAGRAM

ATTACHED. SEE FIGURE NO.:

e/f2. ANTENNA RADIATION PATTERN DIAGRAM

ATTACHED. SEE FIGURE NO.:

h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT

LONGITUDE ATTACHED. SEE FIGURE NO. G9

INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM

2a. CLASS OF STATION ES	2b. NATURE OF SERVICE CP	2a. CLASS OF STATION	2b. NATURE OF SERVICE
2a. CLASS OF STATION	2b. NATURE OF SERVICE	2a. CLASS OF STATION	2b. NATURE OF SERVICE

PERIOD OF VALIDITY 20 Years

i. SERVICE AREA

OR SERVICE AREA ATTACHED SEE FIGURE NO.:

3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED

	Add/Mod/Sup of the freq. range	FREQUENCY	k/M/G HZ	IFRB IDENTIFICATION NUMBER for modification/suppression
FROM	A	54250.0	M	
TO	A	58200.0	M	

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION

EMISSIONS AND POWER CHARACTERS

6/4a3. NECESSARY BANDWIDTH OR Fd/G3a. DESIGNATION OF EMISSION ¹	4a2/4b. TOTAL PEAK POWER ¹	4a1/G3b. MAXIMUM POWER DENSITY	4C. MINIMUM CARRIER POWER ¹	Fd. SPACE/EARTH STATION E.I.R.P. ¹	7. MODULATION CHARACTERISTICS ATTACHED SEE ATTACHMENT NO. ¹
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW	
500MG1W	+ 18.7	- 65.8			

F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATION FOR SPACE-TO-SPACE RELAYS

ADD/MOD/SUP of the station A

a. SPACE STATION NAME

USASAT29D

G3c. BEACON AND TELEMETRY INFORMATION ATTACHED¹ SEE ATTACHED NO.:

MORE EMISSIONS ON NEXT PAGE

MORE ASSOC. RECEIVING STATIONS ON NEXT PAGE

EARTH STATION

ADD/MOD/SUP of the station

TYPE OF TYPICAL EARTH STATION

8b1. RADIATION PATTERN (give reference pattern or provide diagram)

8b2. ANTENNA RADIATION DIAGRAM ATTACHED SEE FIGURE NO.:

8a. RECEIVING SYSTEM NOISE TEMPERATURE Kelvins

REMARKS

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Form AP4-3